

SEQUENCE LISTING

<110> Glucksmann, Maria A.

<120> 14273 Receptor, A Novel G-Protein Coupled Receptor

<130> 5800-4B, 035800/177086

<140> 09/261,599

<141> 1999-02-26

<150> 09/107,761

<151> 1998-06-30

<150> 09/223,538

<151> 1998-12-30

<160> 7

<170> PatentIn Ver. 2.1

<210> 1

<211> 361

<212> PRT

<213> Homo sapiens

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Gly Asp His Arg Leu Val Leu Ala Ala Val Glu Thr Thr Val Leu Val  
35 40 45

Leu Ile Phe Ala Val Ser Leu Leu Gly Asn Val Cys Ala Leu Val Leu  
50 55 60

Val Ala Arg Arg Arg Arg Gly Ala Thr Ala Cys Leu Val Leu Asn  
65 70 75 80

Leu Phe Cys Ala Asp Leu Leu Phe Ile Ser Ala Ile Pro Leu Val Leu  
85 90 95

Ala Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val Ala Cys His  
100 105 110

Leu Leu Phe Tyr Val Met Thr Leu Ser Gly Ser Val Thr Ile Leu Thr  
115 120 125

Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val His Leu Gln  
130 135 140

Arg Gly Val Arg Gly Pro Gly Arg Arg Ala Arg Ala Val Leu Leu Ala  
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Leu Ile Trp Gly Tyr Ser Ala Val Ala Leu Pro Leu Cys Val Phe  
165 170 175

Phe Arg Val Val Pro Gln Arg Leu Pro Gly Ala Asp Gln Glu Ile Ser  
180 185 190

Ile Cys Thr Leu Ile Trp Pro Thr Ile Pro Gly Glu Ile Ser Trp Asp  
195 200 205

Val Ser Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val  
210 215 220

Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser Arg Lys Arg  
225 230 235 240

Leu Thr Val Ser Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser  
245 250 255

Gln Gln Asp Phe Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser  
260 265 270

Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu Leu Ile Leu  
275 280 285

Ile Gln Asn Phe Lys Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe  
290 295 300

Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn Pro Ile Leu  
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Tyr Asn Met Thr Leu Cys Arg Asn Glu Trp Lys Lys Ile Phe Cys Cys  
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Phe Trp Phe Pro Glu Lys Gly Ala Ile Leu Thr Asp Thr Ser Val Lys  
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Arg Asn Asp Leu Ser Ile Ile Ser Gly  
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<212> DNA  
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<400> 2

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<223> Description of Unknown Organism: Seven  
Transmembrane Segment Rhodopsin Superfamily

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20 25 30

Phe Leu Leu Thr Leu Pro Pro Trp Ala Leu Tyr Tyr Leu Val Gly Gly  
35 40 45

Ser Glu Asp Trp Pro Phe Gly Ser Ala Leu Cys Lys Leu Val Thr Ala  
50 55 60

Leu Asp Val Val Asn Met Tyr Ala Ser Ile Leu Leu Leu Thr Ala Ile  
65 70 75 80

Ser Ile Asp Arg Tyr Leu Ala Ile Val His Pro Leu Arg Tyr Arg Arg  
85 90 95

Arg Arg Thr Ser Pro Arg Arg Ala Lys Val Val Ile Leu Leu Val Trp  
100 105 110

Val Leu Ala Leu Leu Leu Ser Leu Pro Pro Leu Leu Phe Ser Trp Val  
115 120 125

Lys Thr Val Glu Glu Gly Asn Gly Thr Leu Asn Val Asn Val Thr Val  
130 135 140

Cys Leu Ile Asp Phe Pro Glu Glu Ser Thr Ala Ser Val Ser Thr Trp  
145 150 155 160

Leu Arg Ser Tyr Val Leu Leu Ser Thr Leu Val Gly Phe Leu Leu Pro  
165 170 175

Leu Leu Val Ile Leu Val Cys Tyr Thr Arg Ile Leu Arg Thr Leu Arg  
180 185 190

Lys Ala Ala Lys Thr Leu Leu Val Val Val Val Phe Val Leu Cys  
195 200 205

Trp Leu Pro Tyr Phe Ile Val Leu Leu Asp Thr Leu Cys Leu Ser  
210 215 220

Ile Ile Met Ser Ser Thr Cys Glu Leu Glu Arg Val Leu Pro Thr Ala  
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Ile Ile Tyr

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<213> Murine ortholog

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Gly Asp His Arg Leu Val Leu Ser Val Val Glu Thr Thr Val Leu Gly  
35 40 45

Leu Ile Phe Val Val Ser Leu Leu Gly Asn Val Cys Ala Leu Val Leu  
50 55 60

Val Ala Arg Arg Arg Arg Gly Ala Ser Ala Ser Leu Val Leu Asn  
65 70 75 80

Leu Phe Cys Ala Asp Leu Leu Phe Thr Ser Ala Ile Pro Leu Val Leu  
85 90 95

Val Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val Val Cys His  
100 105 110

Leu Leu Phe Tyr Val Met Thr Met Ser Gly Ser Val Thr Ile Leu Thr  
115 120 125

Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val Arg Leu Arg  
130 135 140

Arg Gly Leu Ser Gly Pro Gly Arg Arg Thr Gln Ala Ala Leu Leu Ala  
145 150 155 160

Phe Ile Trp Gly Tyr Ser Ala Leu Ala Leu Pro Leu Tyr Ile Leu  
165 170 175

Phe Arg Val Val Pro Gln Arg Leu Pro Gly Gly Asp Gln Glu Ile Pro  
180 185 190

Ile Cys Thr Leu Asp Trp Pro Asn Arg Ile Gly Glu Ile Ser Trp Asp

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Val Phe Phe Glu Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val		
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Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser Arg Lys Arg		
225	230	235
Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser		
245	250	255
Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser		
260	265	270
Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu Leu Ile Leu		
275	280	285
Ile Gln Asn Phe Arg Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe		
290	295	300
Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn Pro Ile Leu		
305	310	315
Tyr Asn Met Ser Leu Phe Arg Asn Glu Trp Arg Lys Ile Phe Cys Cys		
325	330	335
Phe Phe Phe Pro Glu Lys Gly Ala Ile Phe Thr Asp Thr Ser Val Arg		
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Arg Asn Asp Leu Ser Val Ile Ser Ser		
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<212> PRT

<213> Homo sapiens

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<223> mature polypeptide of 14273

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Val Leu Asn Leu Phe Cys Ala Asp Leu Leu Phe Ile Ser Ala Ile Pro  
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Leu Val Leu Ala Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val  
35 40 45

Ala Cys His Leu Leu Phe Tyr Val Met Thr Leu Ser Gly Ser Val Thr  
50 55 60

Ile Leu Thr Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val  
65 70 75 80

His Leu Gln Arg Gly Val Arg Gly Pro Gly Arg Arg Ala Arg Ala Val  
85 90 95

Leu Leu Ala Leu Ile Trp Gly Tyr Ser Ala Val Ala Leu Pro Leu  
100 105 110

Cys Val Phe Phe Arg Val Val Pro Gln Arg Leu Pro Gly Ala Asp Gln  
115 120 125

Glu Ile Ser Ile Cys Thr Leu Ile Trp Pro Thr Ile Pro Gly Glu Ile  
130 135 140

Ser Trp Asp Val Ser Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu  
145 150 155 160

Val Ile Val Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser  
165 170 175

Arg Lys Arg Leu Thr Val Ser Leu Ala Tyr Ser Glu Ser His Gln Ile  
180 185 190

Arg Val Ser Gln Gln Asp Phe Arg Leu Phe Arg Thr Leu Phe Leu Leu  
195 200 205

Met Val Ser Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu  
210 215 220

Leu Ile Leu Ile Gln Asn Phe Lys Gln Asp Leu Val Ile Trp Pro Ser  
225 230 235 240

Leu Phe Phe Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn  
245 250 255

Pro Ile Leu Tyr Asn Met Thr Leu Cys Arg Asn Glu Trp Lys Lys Ile  
260 265 270

Phe Cys Cys Phe Trp Phe Pro Glu Lys Gly Ala Ile Leu Thr Asp Thr  
275 280 285

Ser Val Lys Arg Asn Asp Leu Ser Ile Ile Ser Gly  
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<220>  
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20 25 30

Leu Val Leu Val Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val  
35 40 45

Val Cys His Leu Leu Phe Tyr Val Met Thr Met Ser Gly Ser Val Thr  
50 55 60

Ile Leu Thr Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val  
65 70 75 80

Arg Leu Arg Arg Gly Leu Ser Gly Pro Gly Arg Arg Thr Gln Ala Ala  
85 90 95

Leu Leu Ala Phe Ile Trp Gly Tyr Ser Ala Leu Ala Ala Leu Pro Leu  
100 105 110

Tyr Ile Leu Phe Arg Val Val Pro Gln Arg Leu Pro Gly Gly Asp Gln  
115 120 125

Glu Ile Pro Ile Cys Thr Leu Asp Trp Pro Asn Arg Ile Gly Glu Ile  
130 135 140

Ser Trp Asp Val Phe Phe Glu Thr Leu Asn Phe Leu Val Pro Gly Leu  
145 150 155 160

Val Ile Val Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser  
165 170 175

Arg Lys Arg Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln Ile  
180 185 190

Arg Val Ser Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu Leu  
195 200 205

Met Val Ser Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu  
210 215 220

Leu Ile Leu Ile Gln Asn Phe Arg Gln Asp Leu Val Ile Trp Pro Ser  
225 230 235 240

Leu Phe Phe Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn  
245 250 255

Pro Ile Leu Tyr Asn Met Ser Leu Phe Arg Asn Glu Trp Arg Lys Ile

260

265

270

Phe Cys Cys Phe Phe Pro Glu Lys Gly Ala Ile Phe Thr Asp Thr  
275 280 285

Ser Val Arg Arg Asn Asp Leu Ser Val Ile Ser Ser  
290 295 300